## **AMENDMENT**

## In the Claims:

## Please amend claims 1, 9, 19-22, 24 and 25 as follows:

- 1. [TWICE AMENDED] A method of making a mixture of VNTR alleles and their flanking regions of the genomic DNA of one or more members of a species of interest, which method comprises the steps of:
  - a) dividing genomic DNA of the species of interest into fragments,
  - b) ligating to each end of each fragment an adaptor thereby forming a mixture of adaptor-terminated fragments in which each 3'-end is blocked to prevent enzymatic chain extension,
  - c) contacting a portion of the mixture of adaptor-terminated fragments with an adaptor primer and a VNTR primer wherein said portion of the mixture of adaptor-terminated fragments serves as a template to create a mixture of 5'-flanking VNTR amplimers;
  - d) contacting a portion of the mixture of adaptor-terminated fragments with an adaptor primer and a VNTR antisense primer wherein said portion of the mixture of adaptor-terminated fragments serves as template to create a mixture of 3'-flanking VNTR amplimers,
  - e) and producing a desired mixture of VNTR alleles and their flanking regions by contacting genomic DNA of the one or more members of the species of interest with the mixture of 5'-flanking VNTR amplimers and/or the mixture of 3'-flanking VNTR amplimers as primers wherein said genomic DNA of the one or more members of the species of interest is used as template.

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9. [TWICE AMENDED] The method of claim 6, wherein at least one VNTR allele and its flanking sequences representative of those which manifest the trait of interest, is hybridised with a mixture of VNTR alleles and their flanking sequences representative of alleles which do not manifest the trait of interest, and at least one match and/or at least one mis-match is selected to provide at least one VNTR allele or fragment thereof which is characteristic of the trait of interest.

19. [TWICE AMENDED] The method of claim 17, wherein at least one VNTR allele and its flanking sequence representative of alleles which manifest the trait of interest, is hybridised with a mixture of VNTR alleles and their flanking sequences representative of those which do not manifest the trait of interest, and at least one match and/or at least one mismatch is selected to provide at least one VNTR allele or fragment thereof which is characteristic of the trait of interest.

20. [AMENDED] The method of claim 19, wherein the at least one VNTR allele and its flanking sequence representative of alleles which manifest the trait of interest, is provided with 3'-overlapping ends.

21. [TWICE AMENDED] A method of making a mixture of amplimers which method comprises the steps of:

a) dividing genomic DNA of one or more members of a species of interest into fragments,

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c)

d)

b) ligating to each end of each fragment an adaptor thereby forming a mixture of adapter-terminated fragments in which each 3'-end is blocked to prevent enzymatic chain extension, and

contacting a portion of the mixture of adaptor-terminated fragments with an adaptor primer and a VNTR primer wherein said portion of the mixture of adaptor-terminated fragments serves as a template to create a mixture of 5'-flanking VNTR amplimers, and/or

a portion of the mixture of adaptor-terminated fragments with an adaptor primer and a VNTR antisense primer wherein said portion of the mixture of adaptor-terminated fragments serves as a template to create a mixture of 3'-flanking VNTR amplimers.

22. [AMENDED] A method of identifying an allele which is linked to a trait of interest, which method comprises incubating together under hybridisation conditions: at least one molecule of nucleic acid containing a polymorphic allele and its flanking sequences representative of alleles which manifest the trait of interest; and a mixture of molecules of nucleic acid which contain polymorphic alleles and their flanking sequences representative of those which do not manifest the trait of interest; and selecting at least one match and/or at least one mis-match to provide at least one allele or fragment thereof which is linked to the trait of interest.

24. [AMENDED] The method of claim 22, wherein the at least one allele and its flanking sequences representative of alleles which manifest the trait of interest, is provided with 3'-overlapping ends.